

Substitute Form PTO-1449
(Modified)U.S. Department of Commerce
Patent and Trademark OfficeAttorney's Docket No.
10448-213001Application No.
10/733,563**Information Disclosure Statement
by Applicant**

(Use several sheets if necessary)

(37 CFR §1.98(b))

Applicant
Theresa O'Keefe et al.Filing Date
December 10, 2003Group Art Unit
1642**U.S. Patent Documents**

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
DB	AA	4816397	Mar., 1989	Boss et al.	—	—	
	AB	4816567	Mar., 1989	Cabilly et al.	—	—	
	AC	5225539	Jul., 1993	Winter et al.	—	—	
	AD	5440021	Aug., 1995	Chuntharapai et al.	—	—	
	AE	5543503	Aug., 1996	Chuntharapai et al.	—	—	
	AF	5571713	Nov., 1996	Lyle et al.	—	—	
	AG	5585089	Dec., 1996	Queen et al.	—	—	
	AH	5693761	Dec., 1997	Queen et al.	—	—	
	AI	5693762	Dec., 1997	Queen et al.	—	—	
	AJ	5707815	Jan., 1998	Charo et al.	—	—	
	AK	5859205	Jan., 1999	Adair et al.	—	—	
DB	AL	6084075	Jul., 2000	Lind et al.	—	—	

Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
DB	AM	WO 91/09967	Jul., 1991	WO	—	—		
	AN	WO 94/09128	Apr., 1994	WO	—	—		
	AO	WO 95/08576	Mar., 1995	WO	—	—		
	AP	WO 95/19436	Jul., 1995	WO	—	—		
	AQ	WO 97/31949	Sep., 1997	WO	—	—		
	AR	WO 98/44953	Oct., 1998	WO	—	—		
	AS	WO 99/15666	Apr., 1999	WO	—	—		
DB	AT	WO 00/05265	Feb., 2000	WO	—	—		

Other Documents (include Author, Title, Date, and Place of Publication)

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BB	AU	Montecarlo, F.S. and Charo, I.F., "The Amino-terminal Domain of CCR2 Is Both Necessary and Sufficient for High Affinity Binding of Monocyte Chemoattractant Protein 1", The Journal of Biological Chemistry 272(37):23186-23190 (1997).
↑	AV	Qin, S., et al., "Expression of monocyte chemoattractant protein-1 and interleukin-8 receptors on subsets of T cells: correlation with transendothelial chemotactic potential," Eur. J. Immunol., 26:640-647 (1996).
↑	AW	Yamagami, S., et al., "cDNA Cloning and Functional Expression of a Human Monocyte Chemoattractant Protein 1 Receptor," Biochemical and Biophysical Research Communications, 202(2):1156-1162 (1994).
↑	AX	Charo, I.F., et al., "Molecular cloning and functional expression of two monocyte chemoattractant protein 1 receptors reveals alternative splicing of the carboxyl-terminal tails," Proc. Natl. Acad. Sci., USA., 91:2752-2756 (1994).
↑	AY	Aragay, A.M., et al., "Monocyte chemoattractant protein-1-induced CCR2B receptor desensitization mediated by the G protein-coupled receptor kinase 2," Proc. Natl. Acad. Sci., USA, 95:2985-2990 (1998).
↑	AZ	Frade, J.M.R., et al., "Characterization of the CCR2 Chemokine Receptor: Functional CCR2 Receptor Expression in B Cells," J. Immunol., 159(11):5576-5584 (1997).
↑	AAA	Frade, J.M.R., et al., "The Amino-Terminal Domain of the CCR2 Chemokine Receptor Acts as Coreceptor for HIV-1 Infection," J. Clin. Invest., 100(3):497-502 (1997).
↑	ABB	Wong, L.-M., et al., "Organization and Differential Expression of the Human Monocyte Chemoattractant Protein 1 Receptor Gene," The Journal Biological Chemistry, 272(2):1038-1045 (1997).
↑	ACC	Kurihara, T. and Bravo, R., "Cloning and Functional Expression of mCCR2, a Murine Receptor for the C-C Chemokines JE and FIC," The Journal of Biological Chemistry, 271(20):11603-11606 (1996).
↑	ADD	Grimm, M.C., et al., "Enhanced expression and production of monocyte chemoattractant protein-1 in inflammatory bowel disease mucosa," Journal of Leukocyte Biology 59:804-812 (1996).
↑	AEE	Izikson, L., et al., "Resistance to Experimental Autoimmune Encephalomyelitis in Mice Lacking the CC Chemokine Receptor (CCR)2," J. Exp. Med., 192(7):1075-1080 (2000).
↓ BB	AFF	Fife, B.T., et al., "CC Chemokine Receptor 2 Is Critical for Induction of Experimental Autoimmune Encephalomyelitis," J. Exp. Med., 192(6):899-905 (2000).

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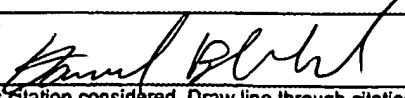
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Examiner Initial	Desig. ID	Document
DB	AGG	Sanz, I., et al., "Evidence That Autoantibodies Can Be Unmutated Copies of Germline Genes," The Journal of Immunology 142(3):883-887 (1989).
	AHH	Chastangner, P., et al., "Cloning of a gene encoding a lupus-associated human autoantibody V.sub.k region using the polymerase chain reaction an degenerate primers," Gene 101:305-306 (1991).
	AII	Chothia, C., et al., "Conformations of immunoglobulin hypervariable regions," Nature 342:877-883 (1989).
	AJJ	Huston, James S., et al., "Engineered antibodies take center stage", Human Antibodies, 10:127-142 (2001).
	AKK	Reichert, Janice M., "Monoclonal antibodies in the clinic", Nature Biotechnology, 19: 819-822 (2001).
	ALL	Welt, et al., "Targeting CCR-2 or CD18 Inhibits Experimental in-Stent Restenosis in Primates. Inhibitory Potential Depends on Type of Injury and Leukocytes Targeted", Circulation-Journal of the American Heart Association (Abstracts from Scientific Sessions 2000), 102(18): II-247, Abstract 1206 (2000).
	AMM	Paul, Fundamental Immunology, Raven Press NY, Chapter 8, p. 242, 1993.
	ANN	Rudikoff et al., Proc. Natl. Acad. Sci. USA 79:1979, 1982.
	AOO	Forster, R., et al., "A general method for screening mAbs specific for G-protein coupled receptors as exemplified by using epitope tagged BLR1-transfected 293 cells and solid-phase cell ELISA", Biochemical and Biophysical Research Communications, 196(3):1496-1503 (1993).
	APP	Boring, L., et al., "Decreased lesion formation in CCR2-/-mice reveals a role for chemokines in the initiation of atherosclerosis," Nature, 394(27):894-897 (1998).
	AQQ	Yla-Herttuala, S., et al., "Expression of monocyte chemoattractant protein 1 in macrophage-rich areas of human and rabbit atherosclerotic lesions," Proc. Natl. Acad. Sci., USA, 88:5252-5256 (1991).
	ARR	Taubman, M.B., et al., "JE mRNA Accumulates Rapidly in Aortic Injury and in Platelet-Derived Growth Factor-Stimulated Vascular Smooth Muscle Cells," Circulation Research 70(2):314-325 (1992).
	ASS	Feng, A., et al., "Red Wine Inhibits Monocyte Chemotactic Protein-1 Expression and Modestly Reduces Neointimal Hyperplasia After Balloon Injury in Cholesterol-Fed Rabbits," Circulation 100:2254-2259 (1999).
DB	ATT	Lukacs, N.W., et al., "Production of Monocyte Chemoattractant Protein-1 and Macrophage Inflammatory Protein-1.alpha. by Inflammatory Granuloma Fibroblasts," American Journal of Pathology, 144(4):711-718 (1994).

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DB	AUU	Koch, A.E., et al., "Enhanced Production of Monocyte Chemoattractant Protein-1 in Rheumatoid Arthritis," The Jour. of Clin. Invest., 90:772-779 (1992).
	AVV	Harigai, M., et al., "Monocyte Chemoattractant Protein-1 (MCP-1) in Inflammatory Joint Diseases and Its Involvement in the Cytokine Network of Rheumatoid Synovium," Clin. Immun. and Immunopathology, 69(1):83-91 (1993).
	AWW	Villiger, P.M., et al., "Production of Monocyte Chemoattractant Protein-1 by Inflamed Synovial Tissue and Cultured Synoviocytes," J. Immunol. 149(2):722-727 (1992).
	AXX	Reinecker, H.C., et al., "Monocyte-Chemoattractant Protein 1 Gene Expression in Intestinal Epithelial Cells and Inflammatory Bowel Disease Mucosa," Gastroenterology, 108(1):40-50 (1995).
	AYY	Nelken, N.A., et al., "Monocyte Chemoattractant Protein-1 in Human Atheromatous Plaques," J. Clin. Invest., 88:1121-1127 (1991).
	AZZ	Grewal, I.S., et al., "Transgenic Monocyte Chemoattractant Protein-1 (MCP-1) in Pancreatic Islets Produces Monocyte-Rich Insulitis Without Diabetes," J. Immunol., 159:401-408 (1997).
	AAAA	Yu, X., et al., "Elevated expression of monocyte chemoattractant protein 1 by vascular smooth muscle cells in hypercholesterolemic primates," Proc. Natl. Acad. Sci., USA, 89:6953-6957 (1992).
	ABBB	Berman, J.W., et al., "Localization of Monocyte Chemoattractant Peptide-1 Expression in the Central Nervous System in Experimental Autoimmune Encephalomyelitis and Trauma in the Rat," J. Immunol., 156:3017-3023 (1996).
	ACCC	Lukacs, N.W., et al., "The Production of Chemotactic Cytokines an Allogenic Response," Amer. Jour. of Pathology, 143(4):1179-1188 (1993).
	ADDD	Christensen, P.J., et al., "Characterization of the Production of Monocyte Chemoattractant Protein-1 and IL-8 in an Allogeneic Immune Response," The Journal of Immunology, 151(3):1205-1213 (1993).
	AEEE	Rand, M.L., et al., "Inhibition of T Cell Recruitment and Cutaneous Delayed-Type Hypersensitivity-Induced Inflammation with Antibodies to Monocyte Chemoattractant Protein-1," Amer. Jour. of Pathology, 148(3):855-864 (1996).
	AFFF	Jones, M.L., and Warren, J.S., "Monocyte Chemoattractant Protein 1 in an Rat Model of Pulmonary Granulomatosis," Laboratory Investigation, 66(4):498-503 (1992).
DB	AGGG	Lloyd, C.M., et al., "Role of MCP-1 and RANTES in inflammation and progression to fibrosis during murine crescentic nephritis," Journal of Leukocyte Biology, 62:676-680 (1997).

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DB	AHHH	Flory, C.M., et al., "Pulmonary Granuloma Formation in the Rat is Partially Dependent on Monocyte Chemoattractant Protein 1," Laboratory Invest., 69(4):396-404 (1993).
	AIII	Jones, M.L., et al., "Potential Role of Monocyte Chemoattractant Protein 1/JE In Monocyte/Macrophage-Dependent IgA Immune Complex Alveolitis in the Rat," J. Immunol., 149(6):2147-2154 (1992).
	AJJJ	Gu, L., et al., "Absence of Monocyte Chemoattractant Protein-1 Reduces Atherosclerosis in Low Density Lipoprotein Receptor-Deficient Mice," Molecular Cell, 2(2):275-281 (1998).
	AKKK	Tesch, G.H., et al., "Monocyte chemoattractant protein-1 promotes macrophage-mediated tubular injury, but not glomerular injury, in nephrotoxic serum nephritis," J. Clin. Invest., 103(1):73-80 (1999).
	ALLL	Lu, B., et al., "Abnormalities in Monocyte Recruitment and Cytokine Expression in Monocyte Chemoattractant Protein 1-deficient Mice," J. Exp. Med., 187(4):601-608 (1998).
	AMMM	Rutledge, B.J., et al., "High Level Monocyte Chemoattractant Protein-1 Expression in Transgenic Mice Increases Their Susceptibility to Intracellular Pathogens," J. Immunol., 155:4838-4843 (1995).
	ANNN	Gunn, M.D., et al., "Monocyte Chemoattractant Protein-1 Is Sufficient for teh Chemotaxis of Monocytes and Lymphocytes in Transgenic Mice but Requires and Additional Stimulus for Inflammatory Activation," J. Immunol., 158:376-383 (1997).
	AOOO	Chensue, S.W., et al., "Role of Monocyte Chemoattractant Protein-1 (MCP-1) in Th1 (Mycobacterial) and Th2 (Schistosomal) Antigen-Induced Granuloma Formation," J. Immunol., 157:4602-4608 (1996).
	APPP	Lukacs, N.W., et al., "Differential Recruitment of Leukocyte Populations and Alteration of Airway Hyperreactivity by C-C Family Chemokines in Allergic Airway Inflammation," J. Immunol., 158:4398-4404 (1997).
	AQQQ	Tang, W.W., et al., "Chemokine Expression in Experimental Tubulointerstitial Nephritis," J. Immunol., 159:870-876 (1997).
DB	ARRR	Fujinaka, H., et al., "Suppression of Anti-Glomerular Basement Membrane Nephritis by Administration of Anti-Monocyte Chemoattractant Protein-1 Antibody in WKY Rats," Jour. of the Amer. Soc. of Nephrology, 8:1174-1178 (1997).

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DB	ASSS	Lloyd, C.M., et al., "RANTES and Monocyte Chemoattractant Protein-1 (MCP-1) Play an Important Role in the Inflammatory Phase of Crescentic Nephritis, but Only MCP-1 Is Involved in Crescent Formation and Interstitial Fibrosis," J. of Exp. Med., 185(7):1371-1380 (1997).
	ATTT	Furukawa, Y., et al., "Anti-Monocyte Chemoattractant Protein-1/Monocyte Chemotactic and Activating Factor Antibody Inhibits Neointimal Hyperplasia in Injured Rat Carotid Arteries," Circulation Research, 84:306-314 (1999).
	AUUU	Zisman, D.A., et al., "MCP-1 Protects Mice in Lethal Endotoxemia," J. Clin. Invest., 99(12):2832-2836 (1997).
	AVVV	Schimmer, R.C., et al., "Streptococcal Cell Wall-Induced Arthritis: Requirements for IL-4, IL-10, IFN-gamma, and Monocyte Chemoattractant Protein-1," J. Immunol., 160:1466-1471 (1998).
	AWWW	Ogata, H., et al., "The Role of Monocyte Chemoattractant Protein-1 (MCP-1) in the Pathogenesis of Collagen-Induced Arthritis in Rats," J. Pathol., 182:106-114 (1997).
	AXXX	Huffnagle, G.B., et al., "The Role of Monocyte Chemotactic Protein-1 (MCP-1) in the Recruitment of Monocytes and CD4 ^{sup} .+ T Cells During a Pulmonary Cryptococcus Neoformans Infection," J. Immunol., 155:4790-4797 (1995).
	AYYY	Gong, J., et al., "AN Antagonist of Monocyte Chemoattractant Protein 1 (MCP-1) Inhibits Arthritis in the MRL-lpr Mouse Model," J. Exp. Med., 186(1):131-137 (1997).
	AZZZ	Boring, L., et al., "Impaired Monocyte Migration and Reduced Type 1 (Th1) Cytokine Responses in C-C Chemokine Receptor 2 Knockout Mice," J. Clin. Invest., 100(10):2552-2561 (1997).
	AAAAA	Kuziel, W.A., et al., "Severe reduction in leukocyte adhesion and monocyte extravasation in mice deficient in CC chemokine receptor 2," Proc. Natl. Acad. of Sci., USA 94(22):12053-12058 (1997).
	ABBBB	Kurihara, T., et al., "Defects in Macrophage Recruitment and Host Defense in Mice Lacking the CCR2 Chemokine Receptor," J. Exp. Med., 186(10):1757-1762 (1997).
	ACCCC	Jiang, Y., et al., "Chemokine receptor expression in cultured glia and rat experimental allergic encephalomyelitis," J. Neuroimmunology, 86:1-12 (1998).
DB	ADDDD	Chuntharapai, et al., "Generation of Monoclonal Antibodies to Chemokine Receptors", Methods in Enzymology 288: 15-27 (1997).

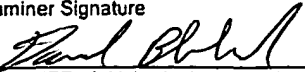
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DB	AB	International Search Report received in Application No. PCT/US03/395999, mailed November 3, 2005.

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